

AMENDMENT(S) TO THE CLAIMS

Please cancel claims 1-37.

38. (New) A device for applying at least one of liquid and pasty application medium to at least one side of a moving substrate, comprising:

an applicator unit arranged at a distance from the substrate, said applicator unit discharging the application medium onto the substrate as a free application medium jet, said applicator unit being kept at a first predetermined electric potential, the substrate proximate to said applicator unit being kept at a second predetermined electric potential thereby producing an electric field, which exerts a force on said application medium jet as it moves from said applicator unit to the substrate, said force assisting in the movement of said application medium jet, wherein the substrate is one of a surface of a material web and a surface of a transfer roll.

39. (New) The device of claim 38, wherein said applicator unit is a curtain applicator unit, said application medium jet being an application medium curtain that discharges the application medium onto the substrate, said application medium curtain moves from said curtain applicator unit to the substrate substantially under the force of gravity.

40. (New) The device of claim 38, wherein said applicator unit is a free jet nozzle applicator unit moving said application medium to the substrate substantially by way of expulsion momentum imparted by said free jet nozzle applicator unit.

41. (New) The device of claim 38, further comprising an electrode arrangement located

on an upstream side of said applicator unit, said electrode arrangement proximate to said applicator unit and located at a distance from the substrate, said electrode arrangement being at a third predetermined electrical potential.

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42. (New) A device for applying at least one of liquid and pasty application medium to at least one side of a moving substrate, comprising:

an applicator unit arranged at a distance from the substrate, said applicator unit discharging the application medium onto the substrate as a free application medium jet; and

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an electrode arrangement located on an upstream side of said applicator unit, said electrode arrangement proximate to said applicator unit and located at a distance from the substrate, said electrode arrangement being at a predetermined electrical potential thereby producing an electric field, which exerts a force on said application medium jet as it moves from said applicator unit to the substrate, said force assisting in the movement of said application

10 medium jet, wherein the substrate is one of a surface of a material web and a surface of a transfer roll.

43. (New) The device of claim 42, wherein said electrode arrangement includes at least one flat electrode having a side with a plurality of at least one of projections and needle points directed toward the substrate.

44. (New) The device of claim 42, wherein said electrode arrangement includes a plurality of individual electrodes arranged adjacent to one another in a direction transverse to the substrate.

45. (New) The device of claim 42, further comprising an electric field producing device located downstream of said application unit, said electric field producing device producing a force that is exerted on the application medium and directed toward the substrate.

46. (New) The device of claim 45, wherein said predetermined electric potential is a third electrical potential, said application unit being at a first predetermined electric potential, said substrate being at a second predetermined potential, said electric field producing device having an other electrode arrangement adjacent to the substrate, said other electrode arrangement being at a  
5 fourth predetermined electric potential.

47. (New) The device of claim 46, wherein at least one of said first predetermined electric potential, said third predetermined electric potential and said fourth predetermined electric potential has an electric potential of between approximately 5kV and approximately 60 kV.

48. (New) The device of claim 47, wherein at least one of said first predetermined electric potential, said third predetermined electric potential and said fourth predetermined electric potential has an electric potential of approximately 30 kV.

49. (New) The device of claim 45, wherein said second predetermined electric potential is at ground potential.

50. (New) The device of claim 45, further comprising:

a backing element being one of in contact with said material web and being said surface of said transfer roll; and

an electrode in contact with said backing element keeping said backing element at said  
 5 second predetermined electric potential.

51. (New) The device of claim 50, wherein said backing element is in wiping contact with said electrode

52. (New) The device of claim 50, further comprising a bearing shaft, said backing element being a backing roll, said backing roll connected to said bearing shaft, said electrode being in contact with said bearing shaft.

53. (New) The device of claim 46, further comprising an electrode formed as a web guide element, said substrate being said material web kept at said second electrical potential by said web guide element.

54. (New) The device of claim 42, further comprising a magnetic field device positioned to impart a magnetic field to the application medium, thereby influencing movement of the application medium.

55. (New) The device of claim 42, further comprising an attenuating device that attenuates an air boundary layer that is carried along with the substrate upstream of said electrode arrangement.

56. (New) The device of claim 55, wherein said attenuating device includes a suction device.

57. (New) The device of claim 56, further comprising a trailing scraper in wiping contact with the substrate downstream of said suction device.

58. (New) The device of claim 57, further comprising an other electrode arrangement proximate to said attenuation device.

59. (New) The device of claim 58, wherein said suction device has a downstream end, said other electrode arrangement being positioned between said downstream end of said suction device and said trailing scraper.

60. (New) The device of claim 58, wherein said other electrode arrangement includes a plurality of individual electrodes arranged adjacent to one another in a direction transverse to the substrate.

61. (New) The device of claim 58, wherein said other electrode arrangement includes at least one flat electrode having a side with a plurality of at least one of projections and needle points directed toward the substrate.

62. (New) The device of claim 58, wherein said other electrode arrangement has a

distance from the substrate of between approximately 2 mm and approximately 30 mm.

63. (New) The device of claim 58, wherein said other electrode arrangement has a floating electrical potential.

64. (New) The device of claim 58, wherein said other electrode arrangement is connected to said attenuation device, said electrode arrangement being electrically insulated from said attenuation device.

65. (New) The device of claim 58, wherein at least one of said applicator unit and said attenuation device is kept at a ground potential.

66. (New) A device for applying at least one of liquid and pasty application medium to at least one side of a moving substrate, comprising:

a curtain applicator unit that discharges the application medium onto the substrate as a curtain, said curtain moving from said curtain applicator unit to the substrate substantially under  
5 the force of gravity; and

a plurality of edge guiding elements that guide lateral edges of said curtain, at least one of said edge guiding elements having a surface being one of roughened and toothed, wherein the substrate is one of a surface of a material web and a surface of a transfer roll.

67. (New) The device of claim 66, wherein at least one said guiding element has a wetting angle, which depends on characteristics of the application medium and said surface of said at least

one guiding element, said wetting angle being less than 90°.

68. (New) The device of claim 66, wherein at least one said guiding element includes an external thread.

69. (New) The device of claim 66 wherein at least one said guiding element is fabricated from one of glass and metal.

70. (New) The device of claim 66, wherein at least one of said guiding elements is displaceable in a direction transverse to the substrate.

71. (New) The device of claim 66, wherein at least one of said guiding elements is angularly adjustable.

72. (New) The device of claim 66, further comprising an electrode proximate to at least one of said guiding elements, said electrode kept at a predetermined electric potential.

73. (New) The device of claim 72, wherein said electrode extends substantially parallel with at least one of said guiding elements.